BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division Yalahanka Zone

NAME OF THE PROJECT: ADDITIONAL DEVELOPMENTAL WORKS TO VIDYARANYAPURA INDOOR STADIUM NEW WARD NO-14

Estimate Amount:-	Rs 300.00 LAKHS
Name of Contractor:-	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97.
Approved amount:-	28240663.00
Tender premium:-	+4.99% (Above)

RATE ANALYSIS -Work Slip- WORKS (PWD CSR 2021-22)

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.
2	19.7.1	163	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. In cement mortar complete with all lead and lift as per the direction of Engineer-In-Charge (PWD SR 2021-22 Vol -2 Pg 163 Item no 19.7.1)	Cum	369.0		369.0	36.9	405.9	20.3	426.2
4	1.4.1	5	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.1)	Cum	186.00	0.00	186.00	18.60	204.60	10.2	214.8

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
6	2.1.3	15	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)	Cum	5,554.00	0.00	5554.00	555.40	6109.40	304.9	6414.3	
7	5.4	9	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Vol 2/ P No-9/ I no- 5.4 of PWD SR 2021-22)	Cum	5,352.00	0.00	5352.00	535.20	5887.20	293.8	6181.0	
8	8.19.1	44	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 44 item No. 8.19.1)	Sqm	199.00	0.00	199.00	19.90	218.90	10.9	229.8	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
10	2.4.1	17	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)	Cum	5,880.00	0.00	5880.00	588.00	6468.00	322.8	6790.8	
13	9.31	64	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (PWD SR 2021-22 Vol -II Pg 64 item no 9.31)	Sqm	1,087.00	0.00	1087.00	108.70	1195.70	59.7	1255.4	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
15	1.9	7	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. complete with all lead and lift as per the direction of Engineer-In-Charge	Cum	204.00	0.00	204.00	20.40	224.40	11.2	235.6	
16	1.1A	3	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A)	Cum	118.00	0.00	118.00	11.80	129.80	6.5	136.3	
17	1.4A	3	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)	t.km	96.00	0.00	96.00	9.60	105.60	5.3	110.9	Basic Rate 12 For 8KM X 12=96Rs
28	6.32	17	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol -II Pg17 item no 6.32) Ground Floor	Sqm	1196.00	0.00	1196.00	119.60	1315.60	65.6	1381.2	
29	6.32	17	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol -II Pg17 item no 6.32) First Floor	Sqm	1196.00	11.96	1207.96	120.80	1328.76	66.3	1395.1	1% Additional Lift Charge

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
32	8.9	42	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 42 item no 8.9)	Sqm	322.00	0.00	322.00	32.20	354.20	17.7	371.9	
35	8.51	50	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. (PWD SR 2021-22 Vol -II Pg 50 item no 8.51)	Sqm	83.00	0.00	83.00	8.30	91.30	4.6	95.9	
36	8.41	48	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 48 item no 8.41)	Sqm	130.00	0.00	130.00	13.00	143.00	7.1	150.1	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
46	11.34B	85	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.(PWD SR 2021-22 Vol -II Pg 85 item no 11.34B)	Kg	157.00	0.00	157.00	15.70	172.70	8.6	181.3	
47	12.9	112	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). (PWD SR 2021-22 Vol -II Pg 112 item no 12.9)	Sqm	7,240.00	0.00	7240.00	724.00	7964.00	397.4	8361.4	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
54	11.16.3	81	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (PWD SR 2021-22 Vol -II Pg 81 item no 11.16.3)	Sqm	110.00	0.00	110.00	11.00	121.00	6.0	127.0	
56	1.17.1	10	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & boning rods at every 100 mm whevere necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata. (Vol - I P No-10 I no- 1.17.1 of PWD SR 2021-22)	Cum	194.00	0.00	194.00	19.40	213.40	10.6	224.0	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
62	11.9.7	37	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier	Each	19996.00	0.00	19996.00	0.00	19996.00	997.8	20993.8	
E1	8.39	48	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge(PWD SR 2021-22 Vol -II Pg 48 item no 8.39)	Sqm	95.00	0.00	95.00	9.50	104.50	5.2	109.7	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
E2	8.3	46	Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 46 item no 8.3)	Sqm	136.00	0.00	136.00	13.60	149.60	7.5	157.1	
E3	Data Rate		Providing and fixing PUF Pannel with precoated galvanised iron profile sheets on the top surface and a ribbed liner tray on the underside and a sandwiched insulation cover. The Profile is as follows- Inner skin: Ribbed liner, aluminium foil/craft paper Outer skin: 35x250mm trapezoidal profile with 2 secondary ribs and anti-capillary flute. The panel thickness of 50 mm. Surface finish: Metallic, solid colours, Polyvinylidene fluoride (PVDF) & super polyster coatings. The Specifications of precoated galvanised iron profile sheets is as follows (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per m2 as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet hould have protective guard film of 25	Sqm	3553.36				3553.36	177.3	3730.67	
E4	7.39.6	27	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per m2 as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :Gutter (600 mm over all girth) (PWD SR 2021-22 Vol -II Pg 27 item no 7.39.6)	Rmt	855.00	0.00	855.00	85.50	940.50	46.9	987.4	

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P +4.99%	Final Rate.	
E5	13.48	1st Corrigenda Vol II. SL No. 27	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion, [i] single socketed pipes 100mm diameter (PWD SR 2021-22 1st Corrigenda Vol II. SL No. 27 .Item No 13.48)	Rmt	253.00	0.00	253.00	25.30	278.30	13.9	292.2	
E6	Data Rate		Providing and fixing Net pole Total Weight 200 KG Material used; Carborudum,Poles gauge:14,Top Wheel type,PaintType: Epoxy Painting,Movable Type: Portable on wheels .Height ; 5.1ft. Tapered box with Yonex Standred Net as Per Specification etc., complete including transportation installation at site.(Data rate)	Each	32,000.00	0.00	32000.00	0.00	32000.00	1596.8	33596.8	

Contractor

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